

Drew Smith has worked at the NASA Marshall Space Flight Center for 18 years in propulsion, structures, and materials research. Beginning as a co-op student from the University of Tennessee-Knoxville (BSME '89), he led an effort to incorporate non-traditional fluid dynamic measurement techniques into the TD74 Propulsion Research Fluid Flow Test Facilities. With hot wire anemometry and laser Doppler velocimetry, he researched complex fluid flows in Space Shuttle Main Engine pumps, gas turbines, SSME powerheads, Solid Rocket Motor core and nozzle flows, and won a Center Research and Technology Award in 1993 for his research into the experimental measurement of Gravity Probe-B microthrusters.

From 2000 to the 2005, he served as Integrated Product Team lead for cryotanks in MSFC's Structures Department, supporting Space Launch Initiative and Next Generation Launch Technology Programs in both project and technical leadership roles as over \$75M was invested in reusable cryotank research. This technology development produced the first reusable composite cryotank to successfully contain liquid Hydrogen multiple times with airframe launch loads simulated.

For the past two years, Drew has worked as an integration lead in the Office of Human Capital aligning strategic human capital solutions with the mission and business goals of MSFC.